

# JOHNSTON

## CORN BINDER



MANUFACTURED BY THE  
**JOHNSTON HARVESTER CO.**  
BATAVIA, N.Y., U.S.A.



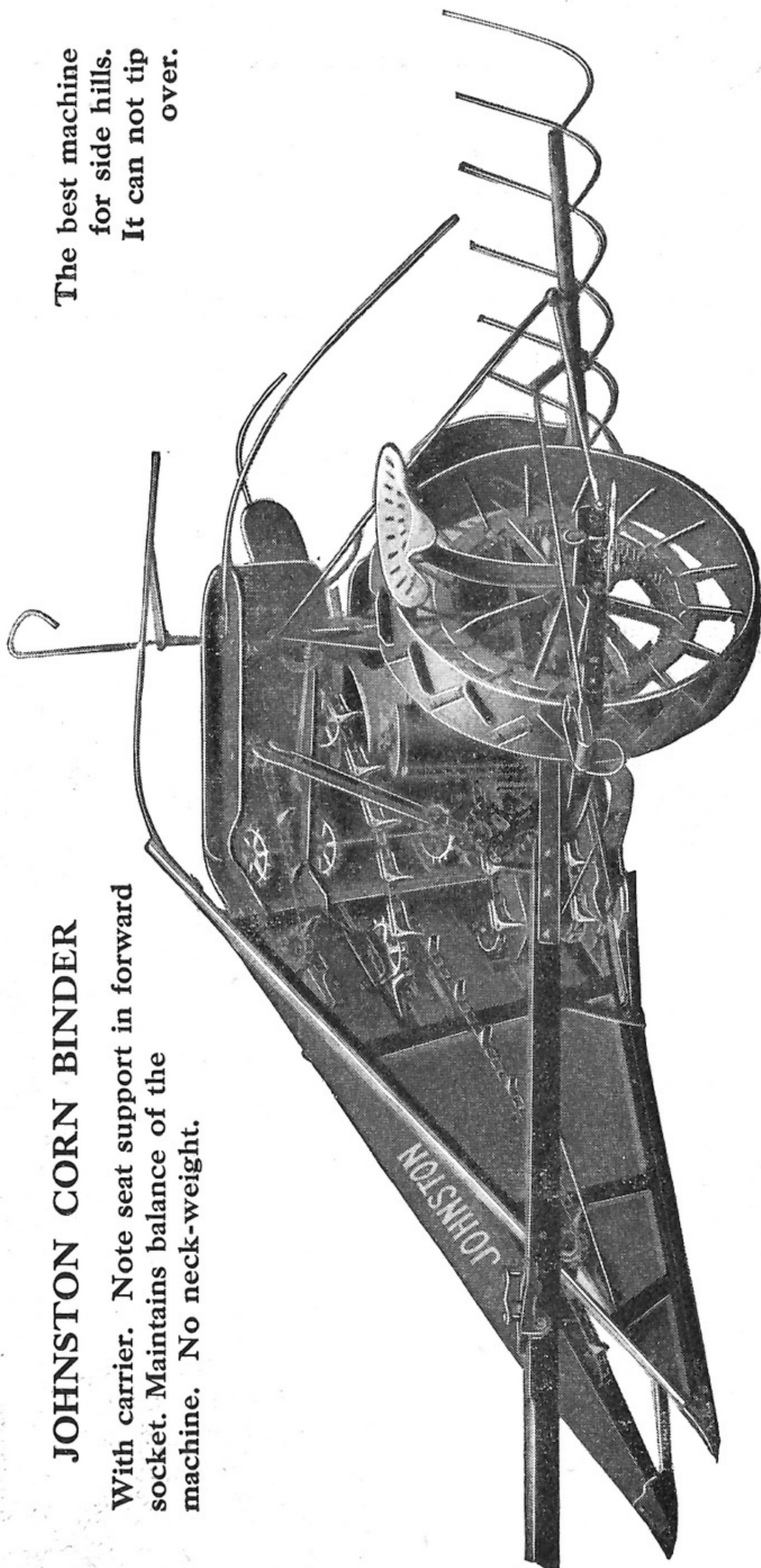
# JOHNSTON CORN BINDER

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The best machine  
for side hills.  
It can not tip  
over.

## JOHNSTON CORN BINDER

With carrier. Note seat support in forward  
socket. Maintains balance of the  
machine. No neck-weight.



## **THE HARVESTING OF CORN**

**T**he day of harvesting the corn crop by hand is past as the modern Corn Binder has become the equal of the Grain Binder in every essential feature.

“Corn is King”—the most valuable crop of the country both on account of the grain value as well as the feeding value of the stalks and leaves. The crop must be harvested at the right time. If harvested too early—the grain is affected; if too late, the feeding value of the stalks and leaves is lessened.

With the Johnston Corn Binder you can go right into the field when the crop is “ripe” and cut your corn in little or no time—saving it all.

The Johnston Corn Binder has great power, light and direct draft, wide range of binding attachment, better cutting apparatus and uses less power in elevating than any other Corn Binder. The Johnston is simple, effective and durable.

**THE JOHNSTON HARVESTER CO.**

**BATAVIA, NEW YORK,**

**U. S. A.**



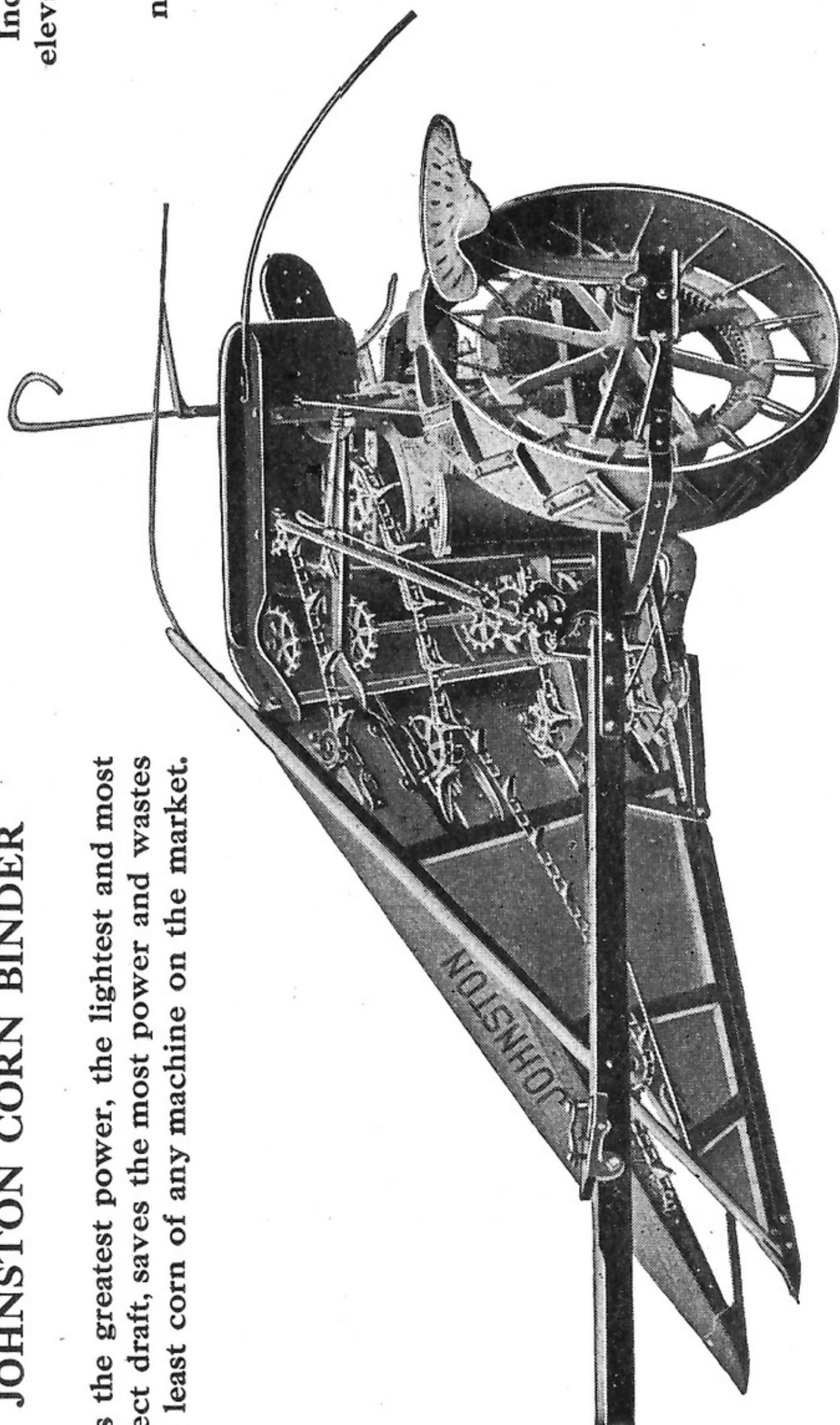
# JOHNSTON CORN BINDER

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Inclined  
elevation,  
the  
only  
natural  
way.

## JOHNSTON CORN BINDER

Has the greatest power, the lightest and most direct draft, saves the most power and wastes the least corn of any machine on the market.



## JOHNSTON CORN BINDER

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**L**ight, compact construction.

Steel frame, wheels and supporting beams.

Light draft. No side draft. No neck-weight.

Two horses handle the machine.

An even balance. *Can not tip over on side hills.*

Smoothly running working parts.

Roller bearings. Brass-bush bearings.

Largest main wheel on any corn binder. Gains power.

Natural inclined elevation. Saves power.

Handles perfectly, down or tangled corn.

No packers. Saves corn.

Knocks off fewer ears.

Ties every bundle. Ties tight, shapely bundles.

Ties 18 or 32 inches from the butts.

Automatic conveyor fingers.

*Only machine with automatic gates.*

Saves crowding the tier.

Special chain adjustment. Adjustable stalk passage.

Perfect cutting apparatus. Three knives and one center plate. Takes care of the weeds and vines.

Right-hand levers.

Steel bundle carrier. Bundles discharged farthest from the machine.

The complete machine is 5 feet 11 inches wide, and will pass through any ordinary farm gateway.



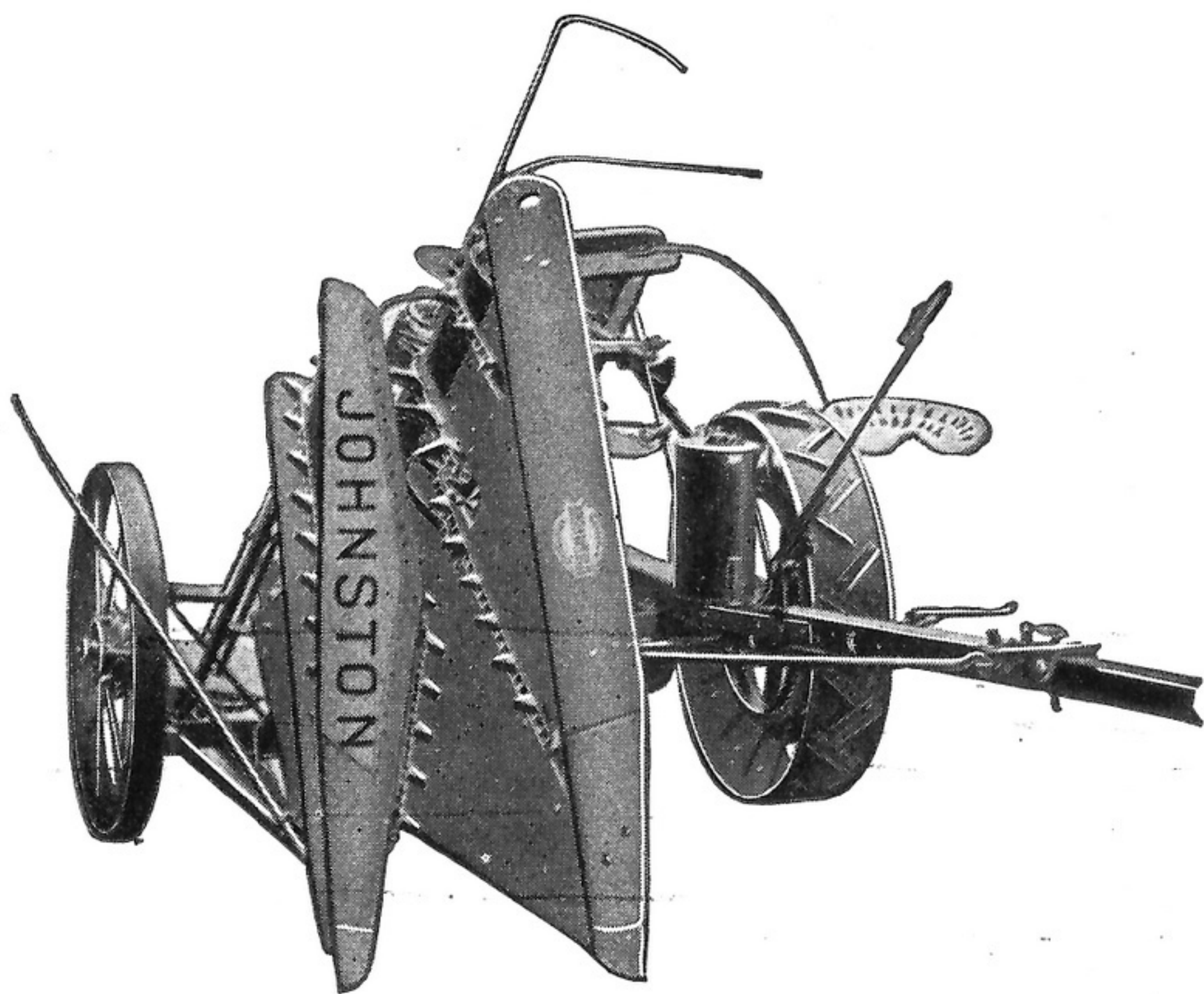
## JOHNSTON CORN BINDER

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On every important point, the Johnston is superior to any corn binder manufactured. This is especially so in regard to power, draft and manner of elevating and binding the corn.

The Johnston elevates and binds corn in an inclined position—the natural way. Binding corn in a horizontal position is very wasteful. Binding corn in a vertical position requires more power and does not allow the weight of the corn to be carried back of the line of draft.

This tends to destroy the balance of the machine.

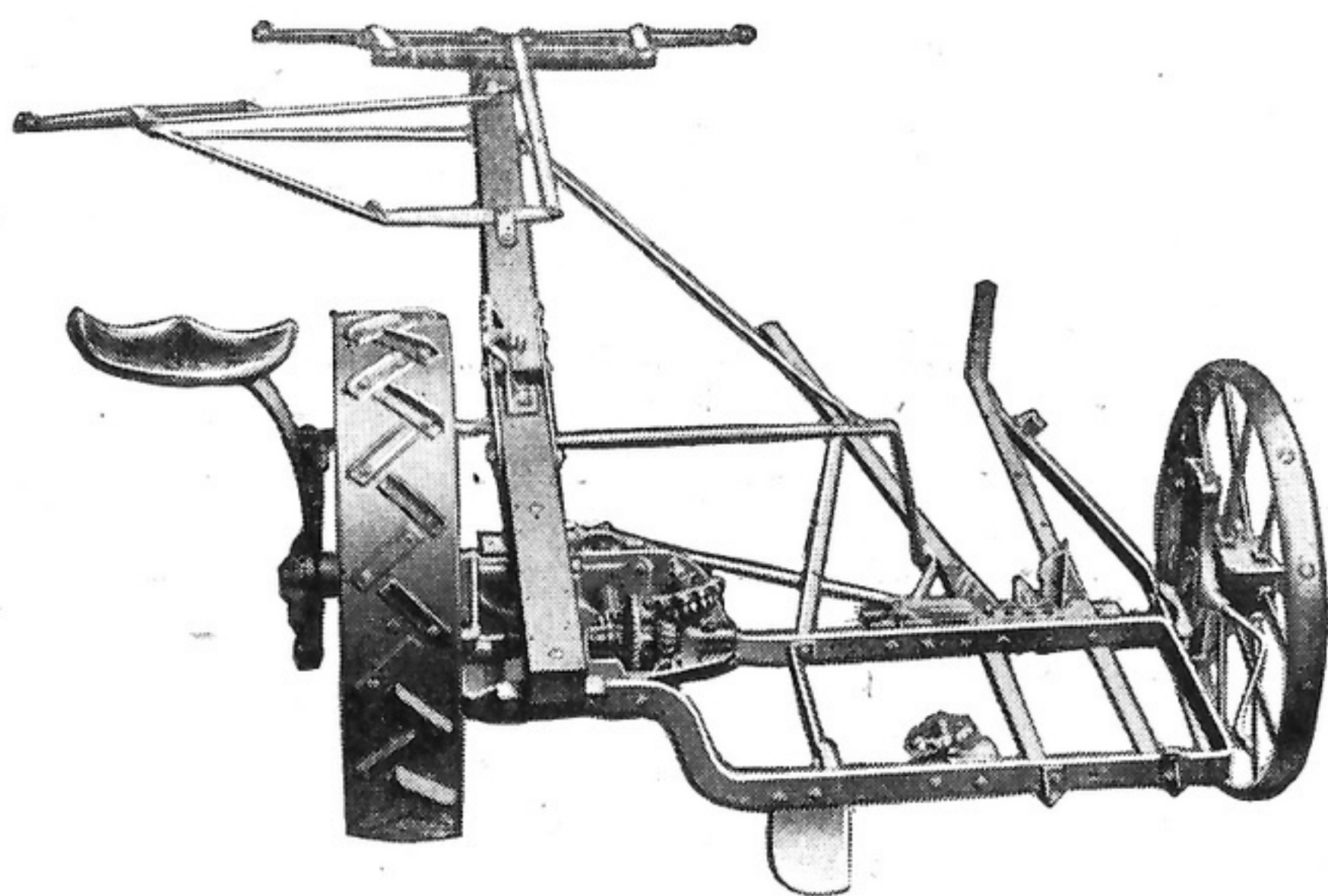


## JOHNSTON CORN BINDER

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Of all the vertical or inclined machines, the Johnston is the only one that has the pole attached to the frame inside of the wheel. This divides the weight and work of the machine between the wheel and the operator on one side and the elevators and gearing on the other, and the binder attachment at the rear, *in* the line of draft. Makes even draft, perfect balance, no neck-weight. The main frame is steel, in one piece. It is wide enough to be stable always, and can be safely worked on side hills.

Note, also, the manner in which the frame is braced, the location of the gearing, the steel angle parts that carry the elevators and cutting apparatus, and the new steel three-horse equalizer with the middle horse directly in front of the wheel and the nigh horse away from the corn. The pole is in two sections. This helps in tilting to keep the machine in balance. And, don't forget that *every other manufacturer* of vertical or inclined machines *has the pole outside of the wheel*.





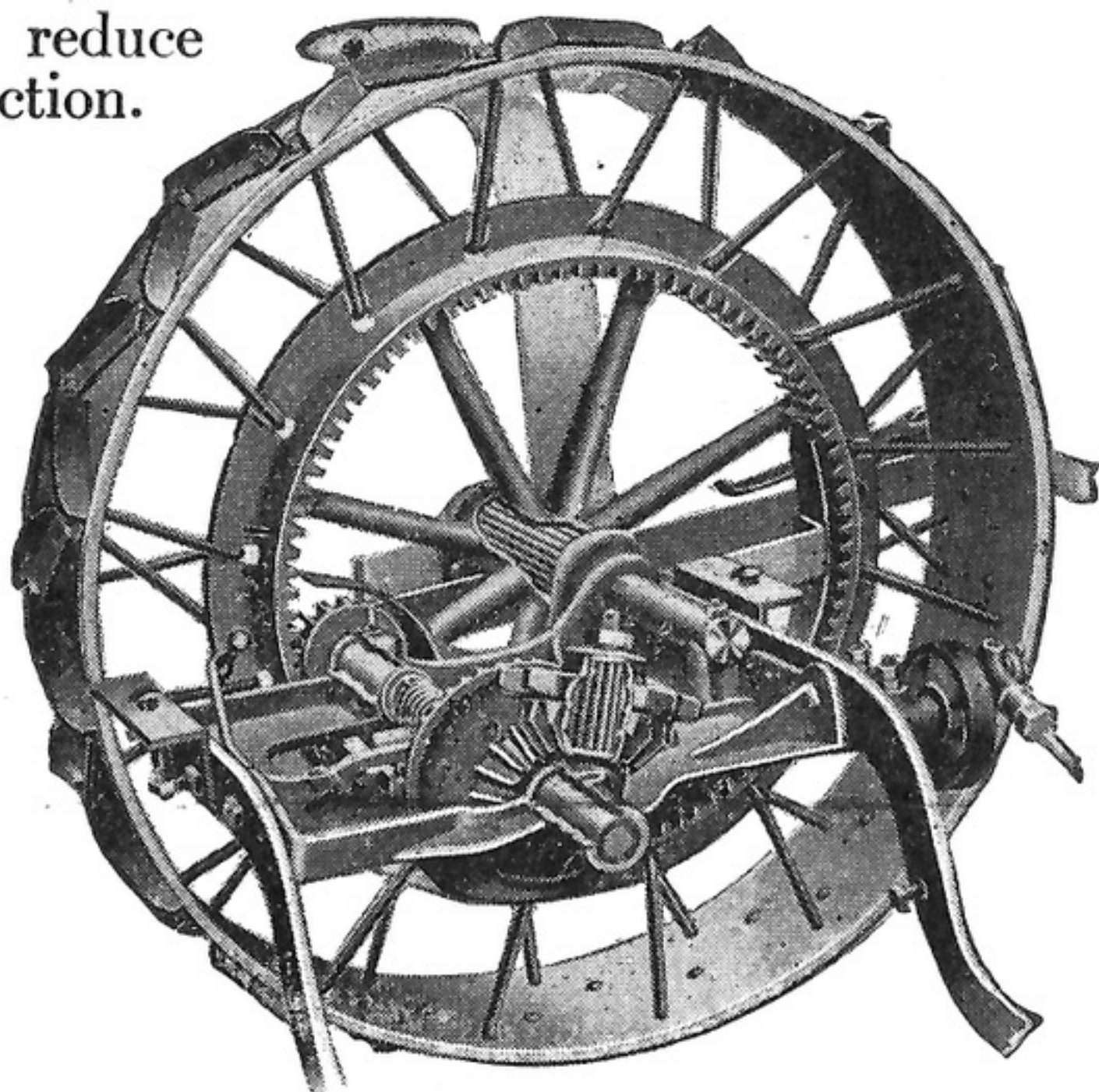
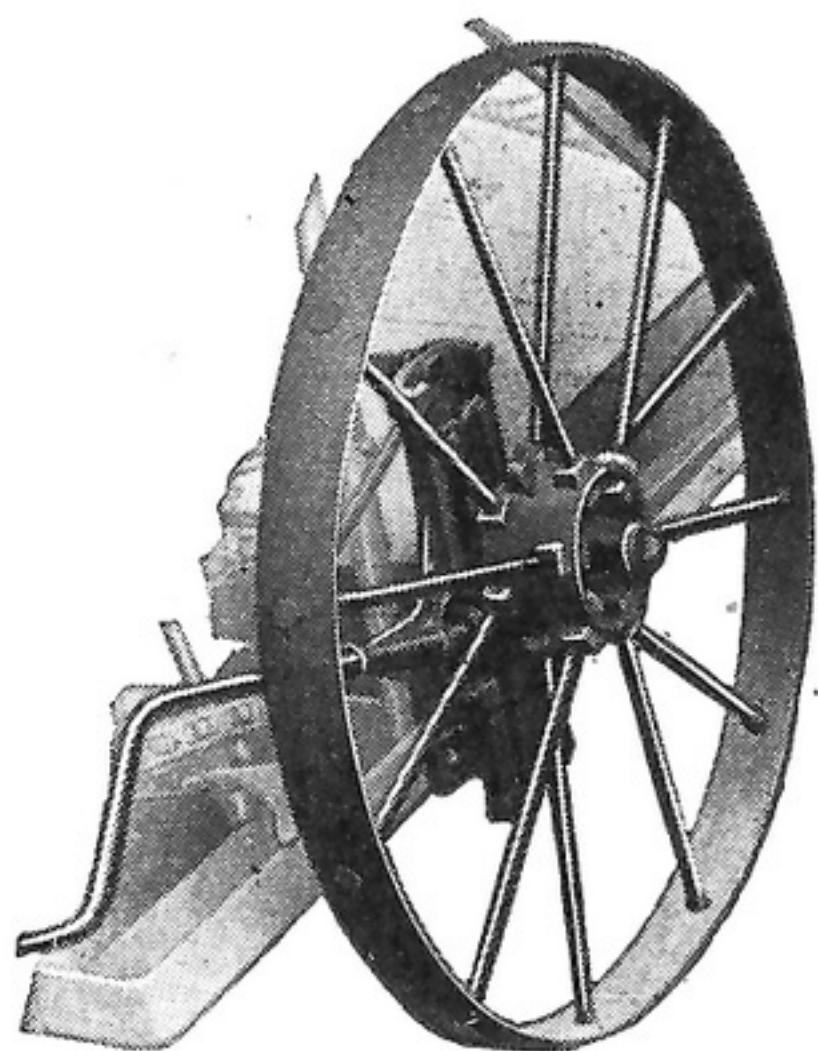
## JOHNSTON CORN BINDER

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**W**e have the largest main wheel in use on any corn binder, and the machine drives and cuts with greatest power. The wheel is forty inches in diameter, with steel rim, steel spokes, steel calks, cast gear from cut pattern. It has never given trouble in the seven years of hard tests it has been through, and works well on wet land, stony ground or in loam. The hub of wheel has roller bearings that decrease the draft.

The steel grain wheel has broad, rounding rim, and the machine may be raised and lowered at this side by crank and worm, to suit the conditions.

The gearing is made from cut patterns and securely fitted to a strong cast frame. It is well shielded from the dirt and against winding or clogging. Long brass-bush bearings at each end of the cross shaft keep it in line, and there is no danger of heating. Roller bearings, provided for bevel gear, reduce the friction.





## JOHNSTON CORN BINDER

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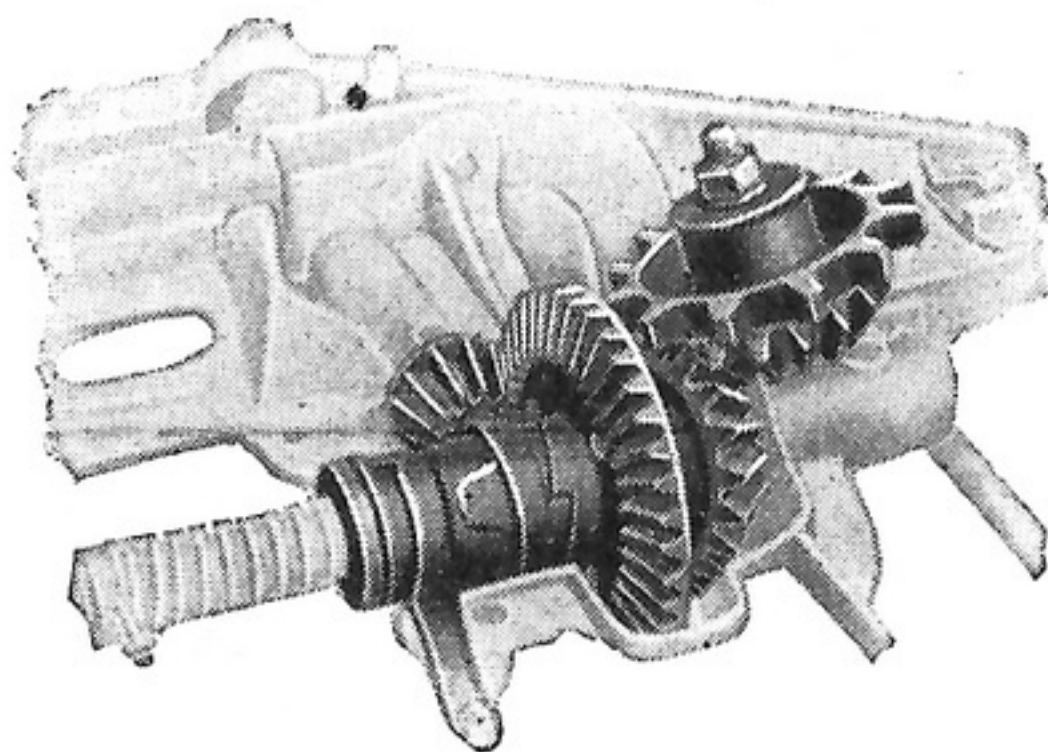
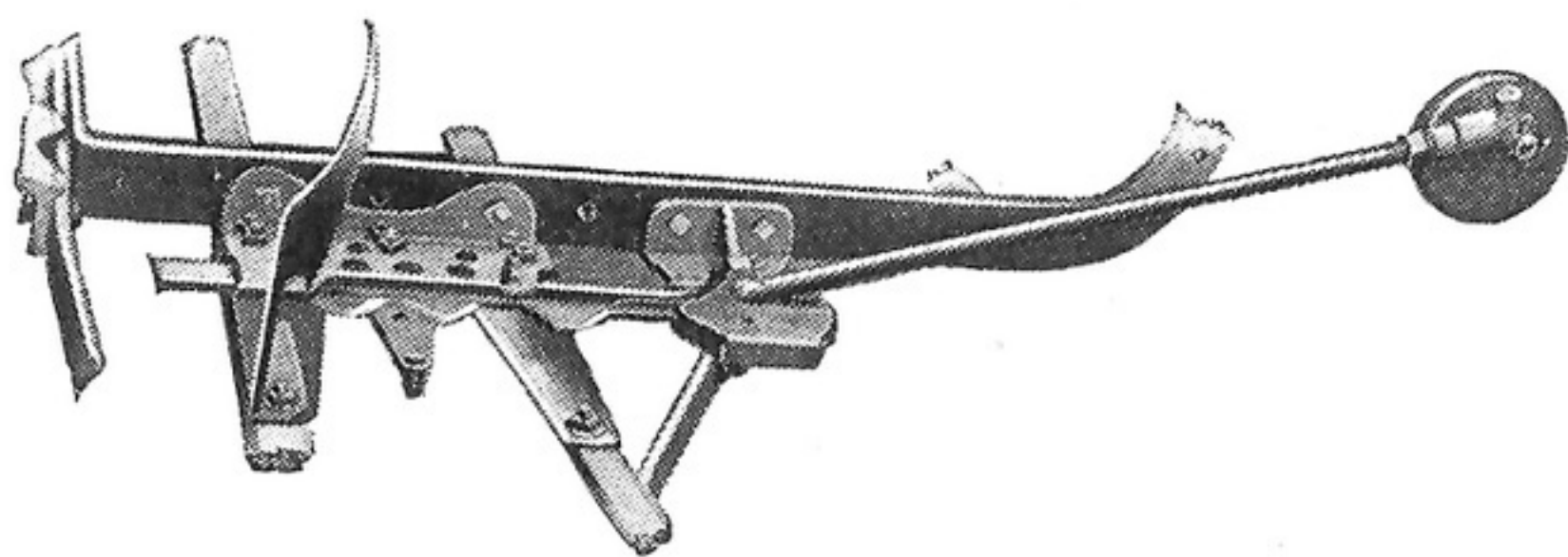
Sufficient and positive power is essential in cutting corn and there is a great sufficiency of both in our binder.

The pitman is adjustable with direct push and pull. A pitman head, that is brass and self-oiling, never runs hot, causing friction.

The cutting apparatus consists of two stationary side-knives, a center-knife and a regular two-section sickle or smooth knife. The knife bar is held in line by a steel wear plate.

By this superior apparatus the corn is CUT, not TORN UP by the roots. There is no clogging,—grass and weeds are cut.

The gearing is very strong and meshes perfectly. Can be thrown in and out of gear by the driver from his seat.





## JOHNSTON CORN BINDER

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We show here the inclined stalk passage and the gathering chains for elevation of the corn in easy position. Any other way requires more power. Johnston gathering chains pick up the row knocked down in opening up the field and handle tangled corn perfectly.

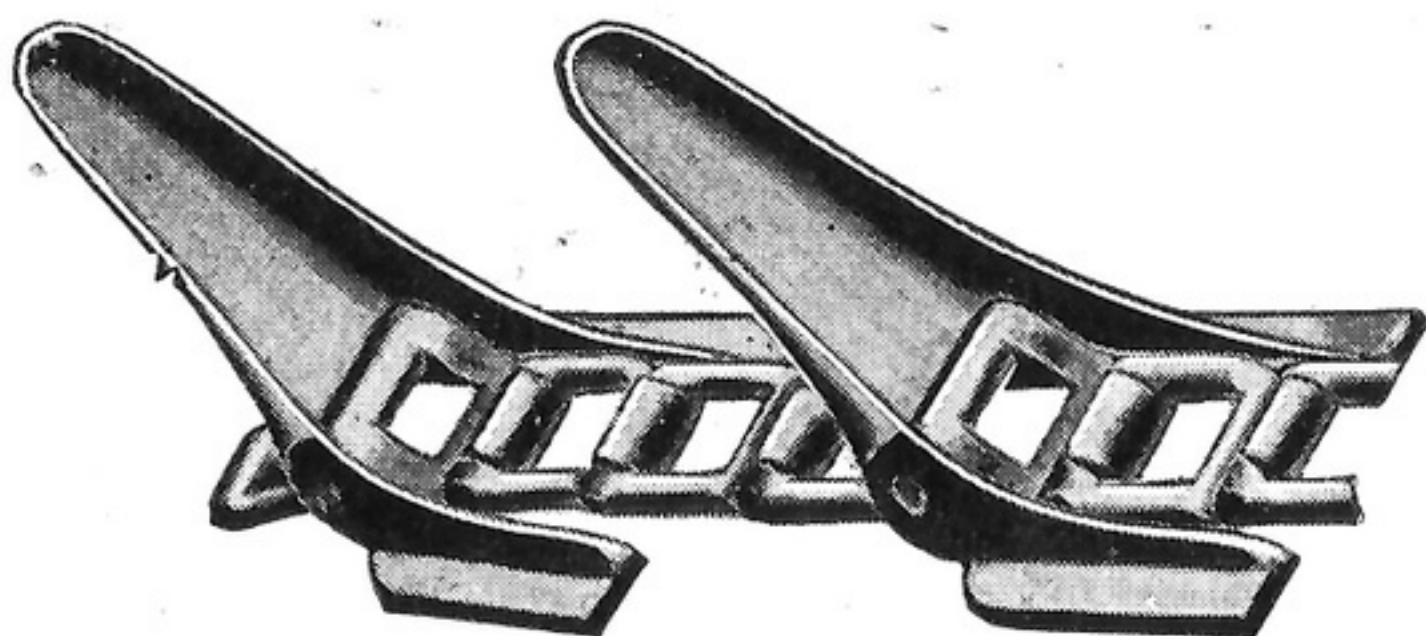
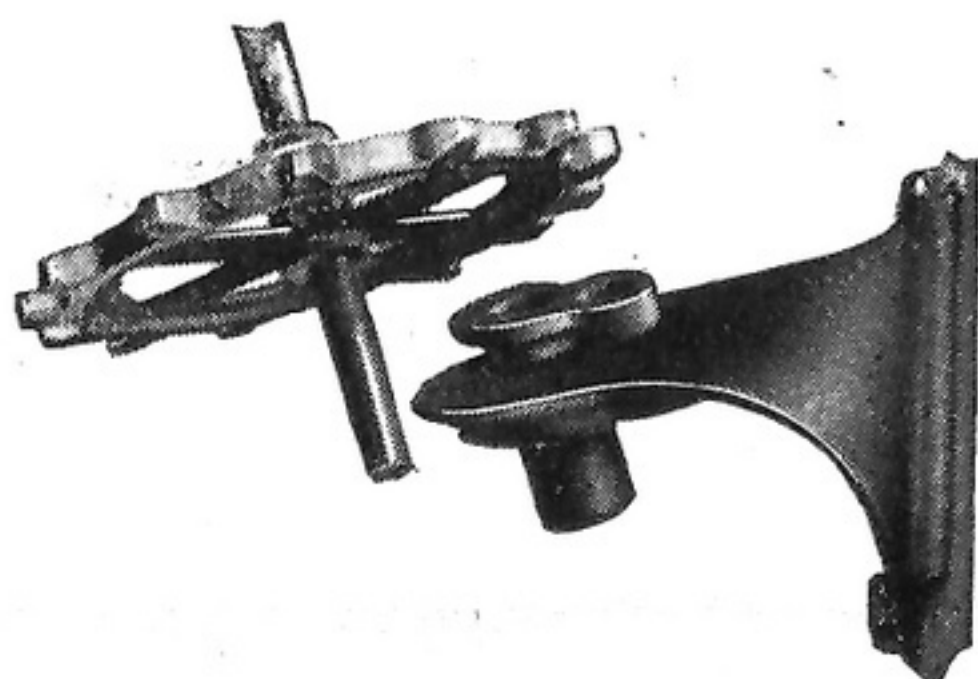
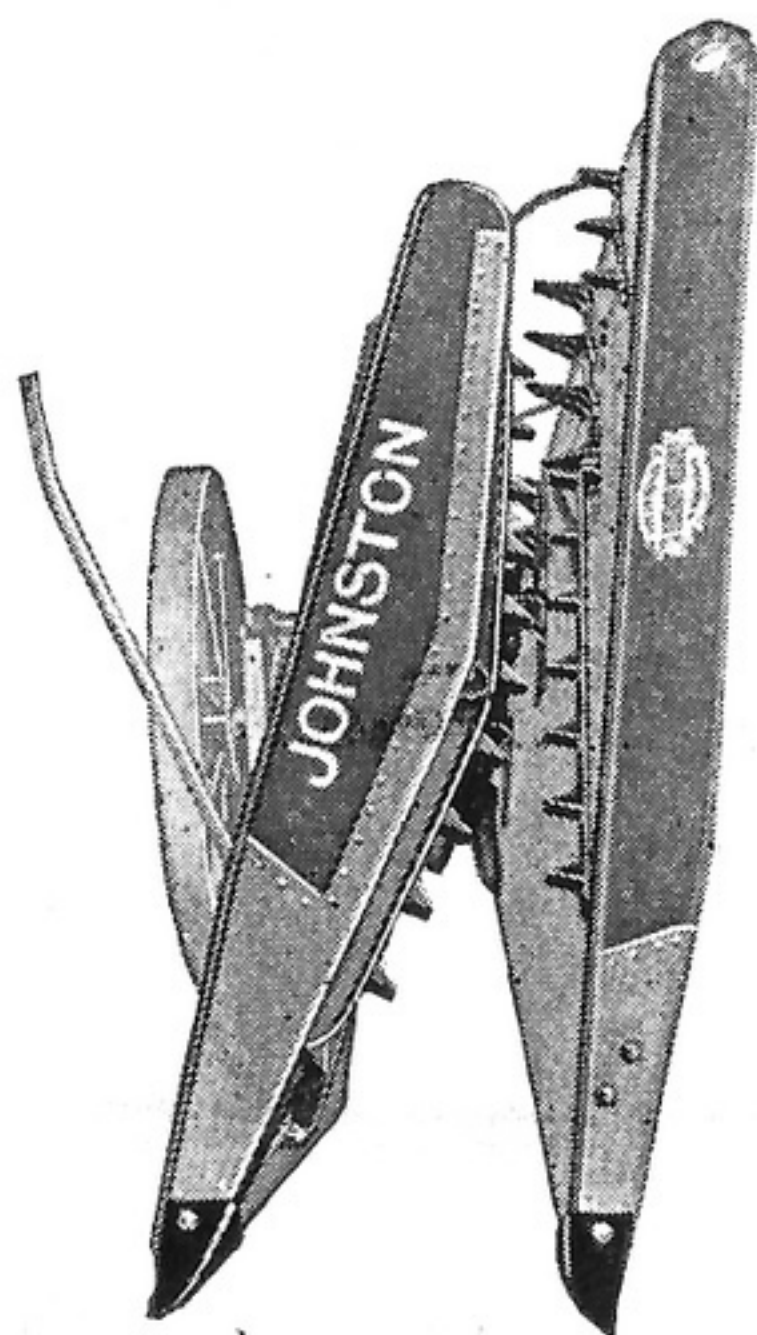
They have stationary fingers.

By changing position of the outer divider, the stalk passage is adjustable from two to five inches in width, to accommodate the different growths.

Note removable box for the outer divider shaft.

It is self-oiling and easily replaced in case of wear.

After the corn has been cut, it is carried by conveyor chains to the binder attachment. The chains have automatic fingers and a patent link with "stop" that holds the fingers in place and so prevents clogging and unnecessary wear. The fingers have convex surface where they bear against the corn. This gives them greater strength.





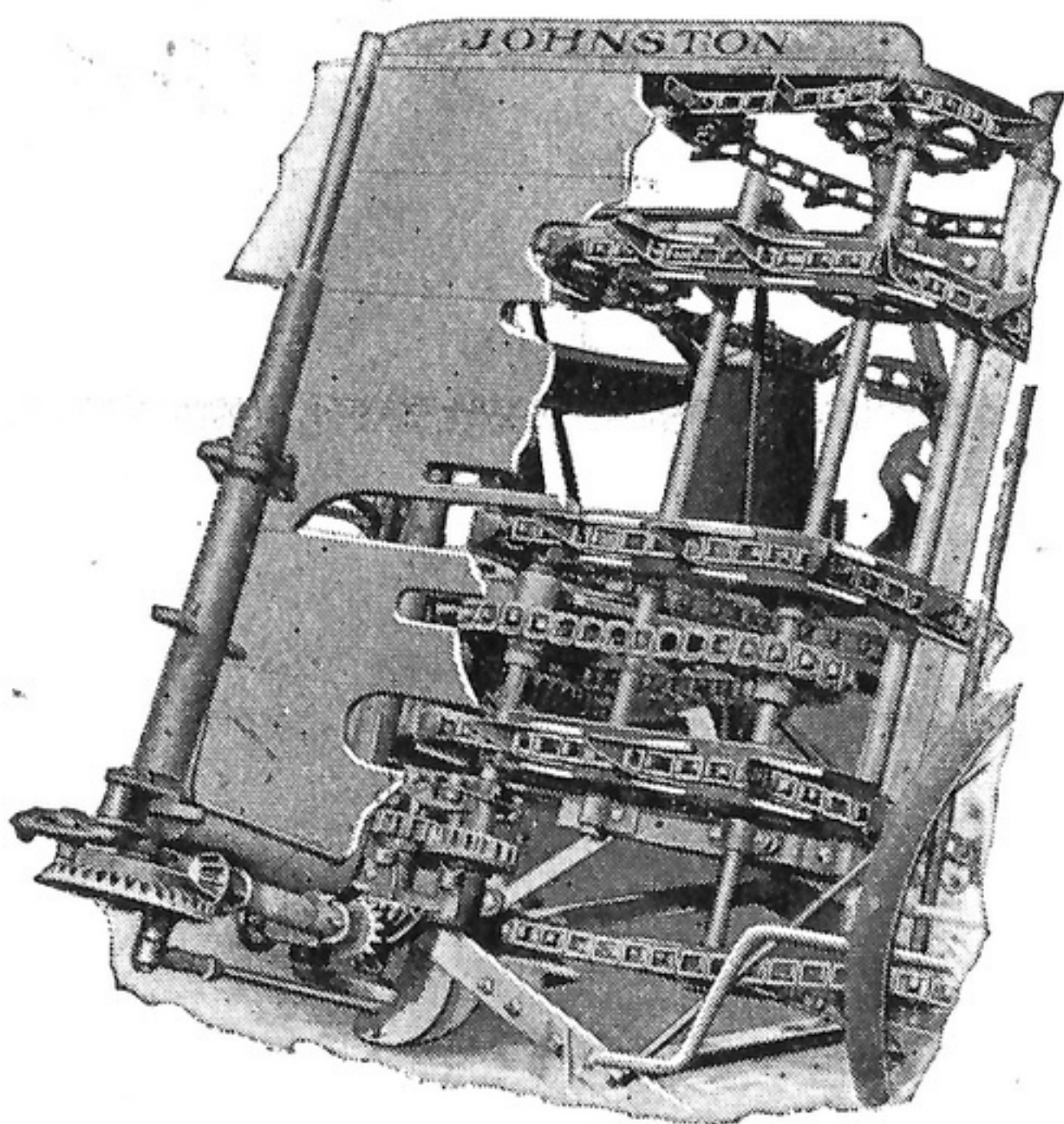
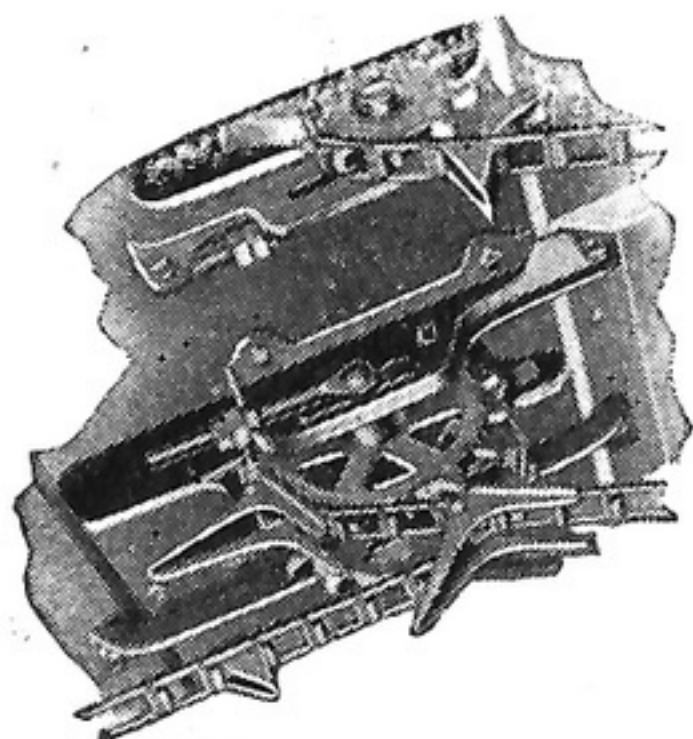
## JOHNSTON CORN BINDER

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The chains are kept at the right tension. The sprockets are carried in slotted brackets and their position is regulated by long adjusting bolts with set nuts. Each sprocket runs on a stub in the hub. This takes the most of the wear and is cheaply replaced.

In the accompanying cut you will note three conveyor chains, in perfect alignment, main driving chain and outer divider chain. Sprockets, used as idlers only, carry the chains in perfect time but do not add to the strain of the driven parts. This saves power and wear.

The conveyor shaft has two sets of roller bearings, reducing friction.





# JOHNSTON CORN BINDER

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The conveyor fingers carry the stalks to the point of making up the bundle. Then automatic gates release the fingers before the needle passes around the bundle. The fingers fold forward, and instead of pushing the corn through, they keep the incoming stalks from crowding.

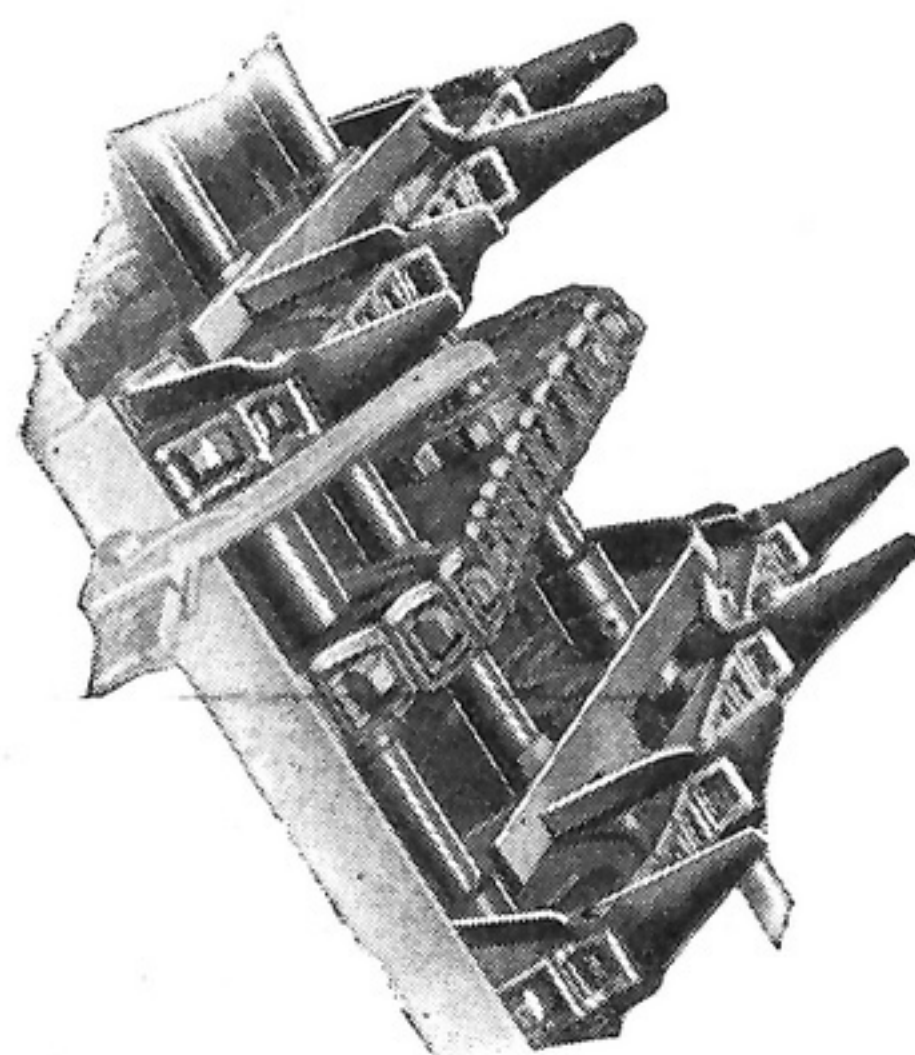
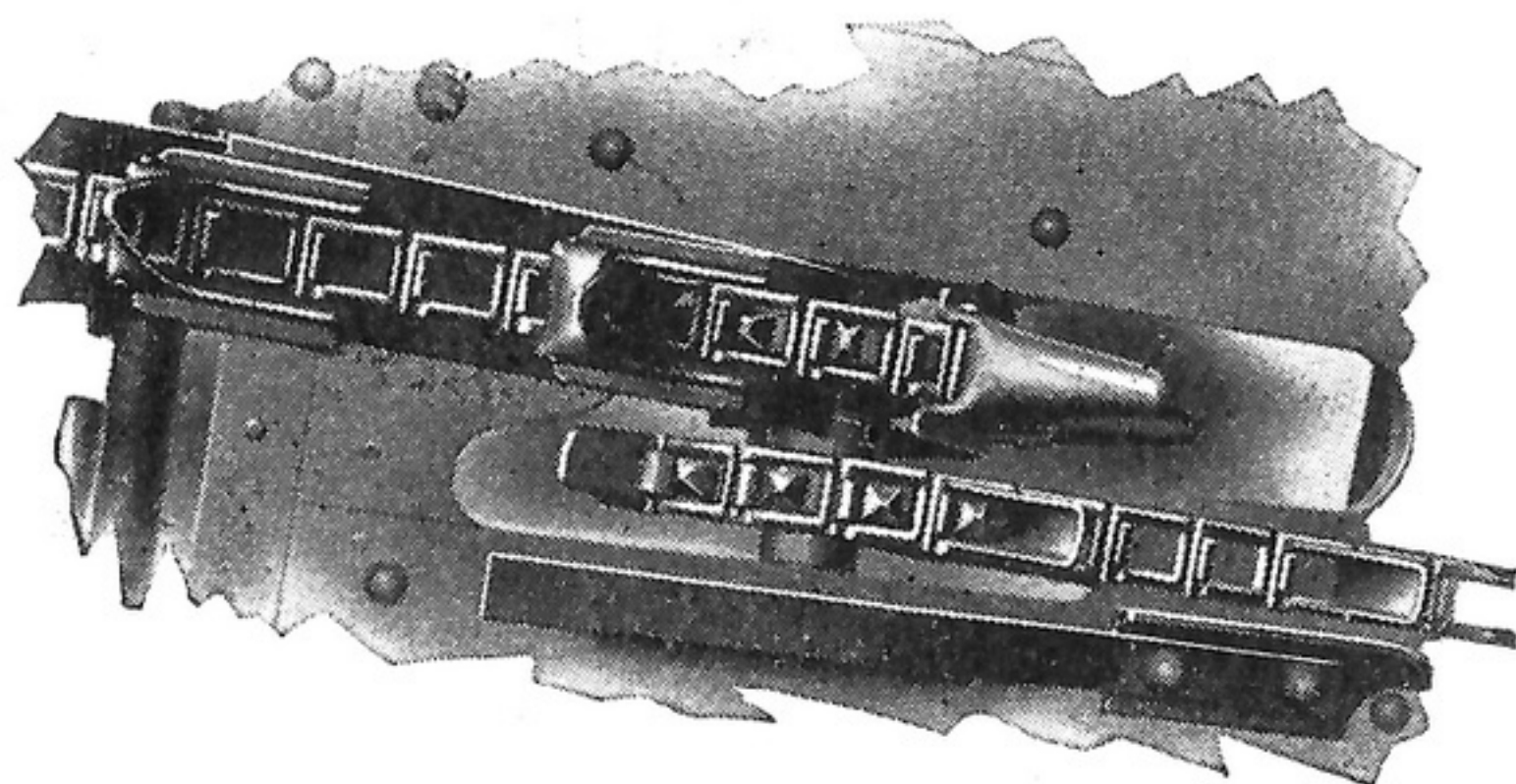
On this page, we show the gates closed and open. The upper cut also shows chain stripper which helps to prevent clogging.

## THE JOHNSTON IS THE ONLY BINDER WITH AUTOMATIC GATES

We do not use packers.

This machine knocks off fewer ears than any other corn binder.

The Johnston handles light, medium or heavy growths of corn equally well.



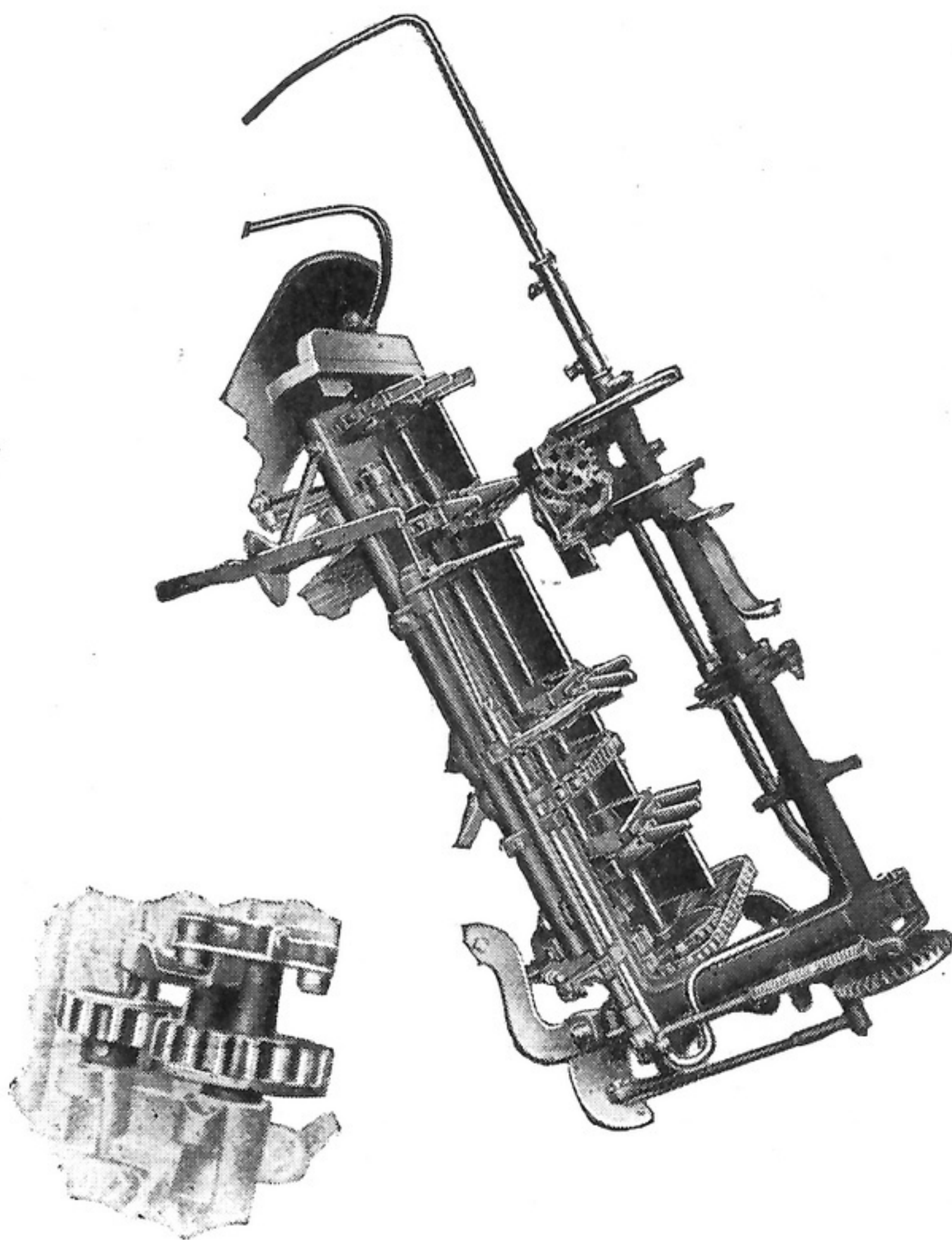


## JOHNSTON CORN BINDER

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**T**he binder attachment is nicely balanced and securely attached so that the knotter is always in perfect line with the needle. Note the single and double discharge arms for short and medium corn and the extra extension arm for long stalks. Note shield at the bottom to protect the tier pitman. Also the stalk channel shifter lever and rod, operated from the seat and carrying the weight of the channel pan from the under side.

We show in the small cut the spring trip that locks the tier when the bundle has been made. The working parts are always in perfect time with the needle. No repeating.





## JOHNSTON CORN BINDER

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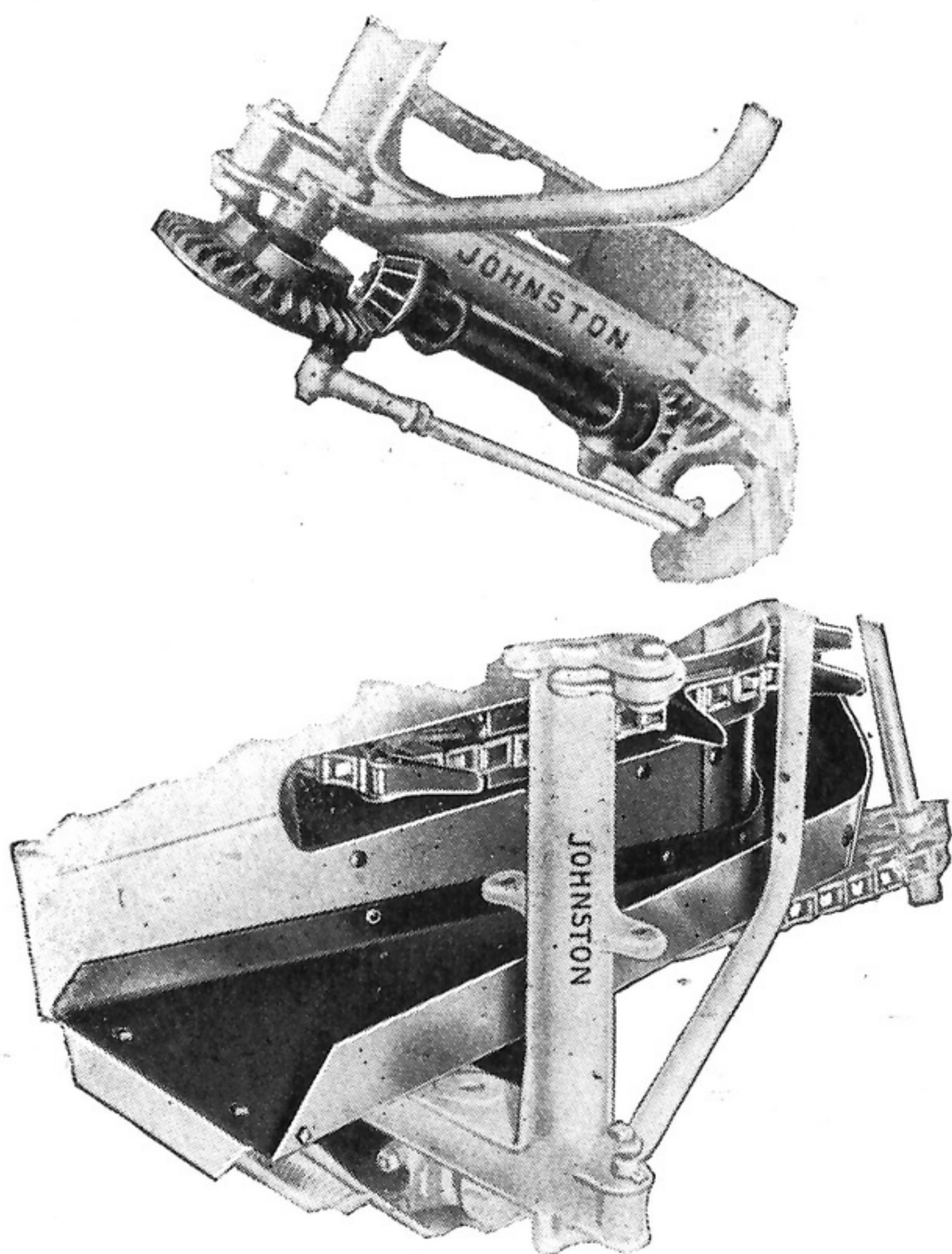
The binder attachment is gear-driven. The intermediate shaft-box is securely fastened to the tier frame by staples. The gearing is always in perfect mesh. The tier pitman is adjustable and the head is held in position by set-nut. The cam-wheel opens and locks the trip.

The needle is in one solid piece. Does not catch ears or stalks. Easy to thread.

The trip and compressor springs are adjusted separately, but one nut takes up the wear.

The stalk channel pan is sheet steel in two parts, jointed at the turn. Has four inches adjustment. Can be raised at the turn, adjusted at the level or raised at back for short corn.

Is furnished with bundle-stop at the rear end of the pan.





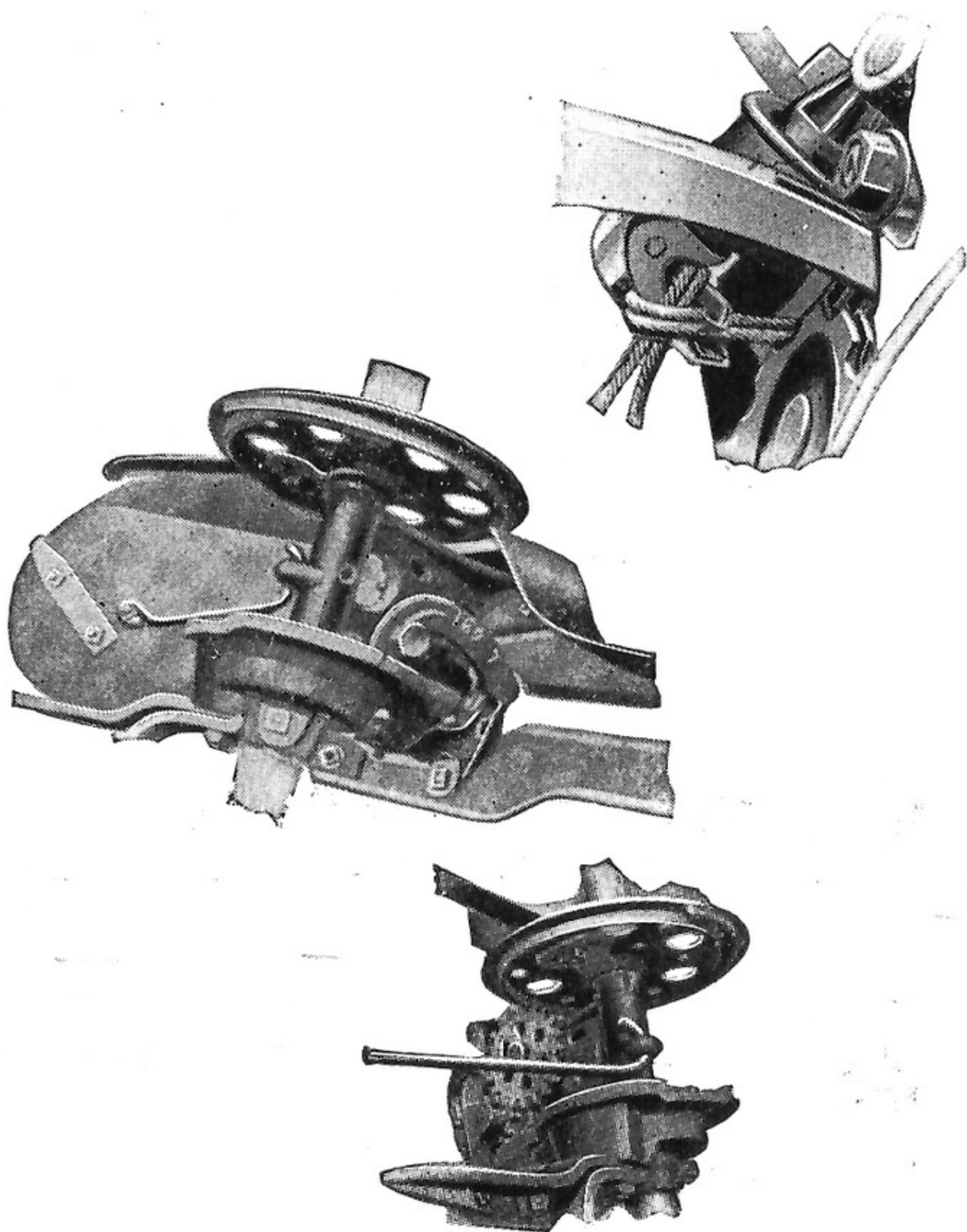
## JOHNSTON CORN BINDER

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**T**he Johnston knotter is our special pride. The keynote of its success is positive action of all of its parts. They are all cam-driven and must work just so.

We show in succession cuts of knotting-hook with the twine over three-fourths of the turn and the knot nearly tied; then, the cam for knife-arm, the knot tied and the twine being cut; last, the cam for twine-holder gear. Each cog on the gear means a bundle tied.

Every knotter is carefully fitted and thoroughly tested before leaving the factory.





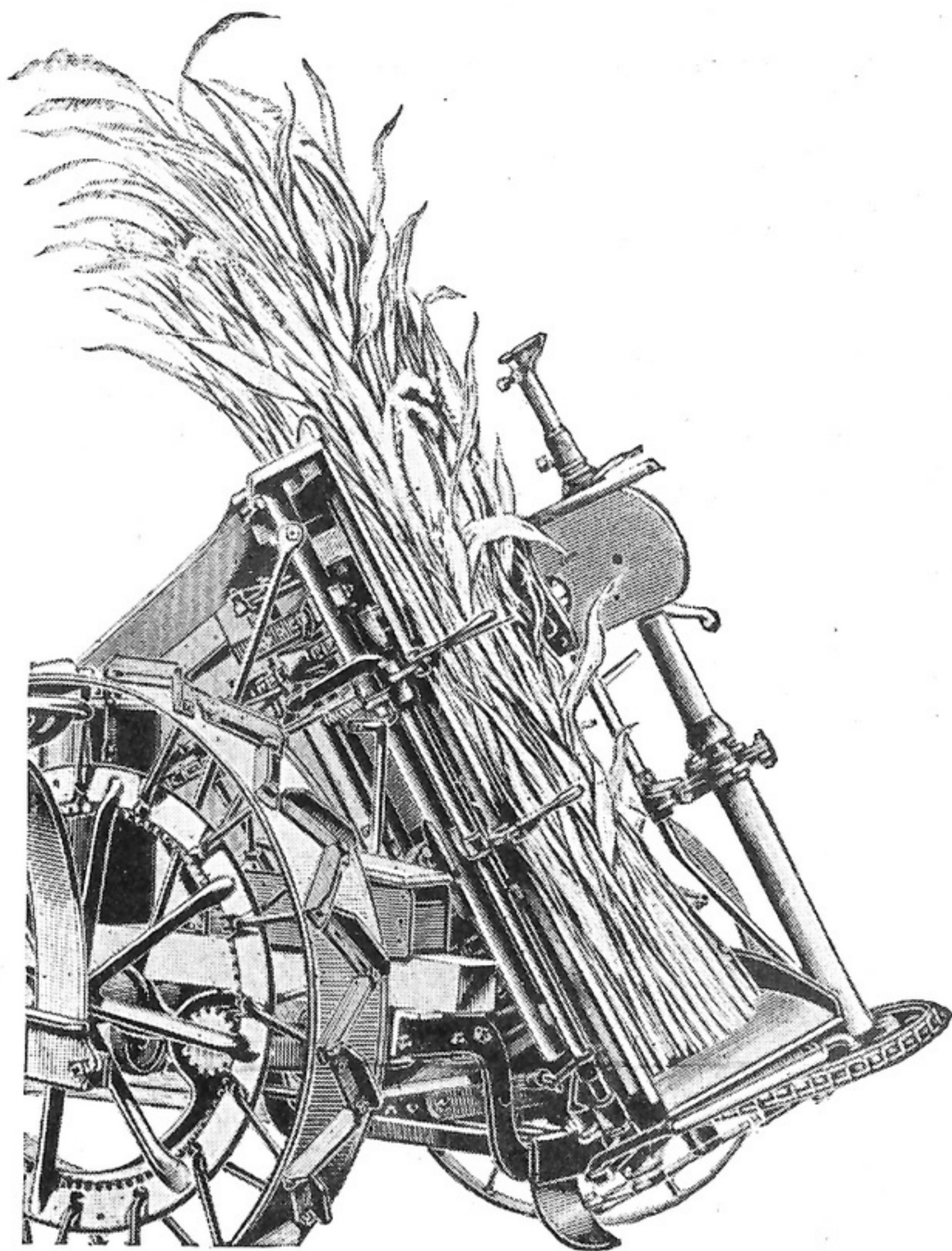
## JOHNSTON CORN BINDER

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**T**he Johnston has the widest adjustment of the band on any corn binder. Can bind as high as 32 inches from the butts in tall corn or as low as 18 inches in short corn. Can bind above or below the ears.

The machine, as delivered, is set for medium and tall corn, with the tier frame extension in place and the four-inch adjustment of the pan for your range.

For the tallest corn, we furnish at slight additional cost, an extension which is easily attached. It handles the tops of the long stalks perfectly.





## JOHNSTON CORN BINDER

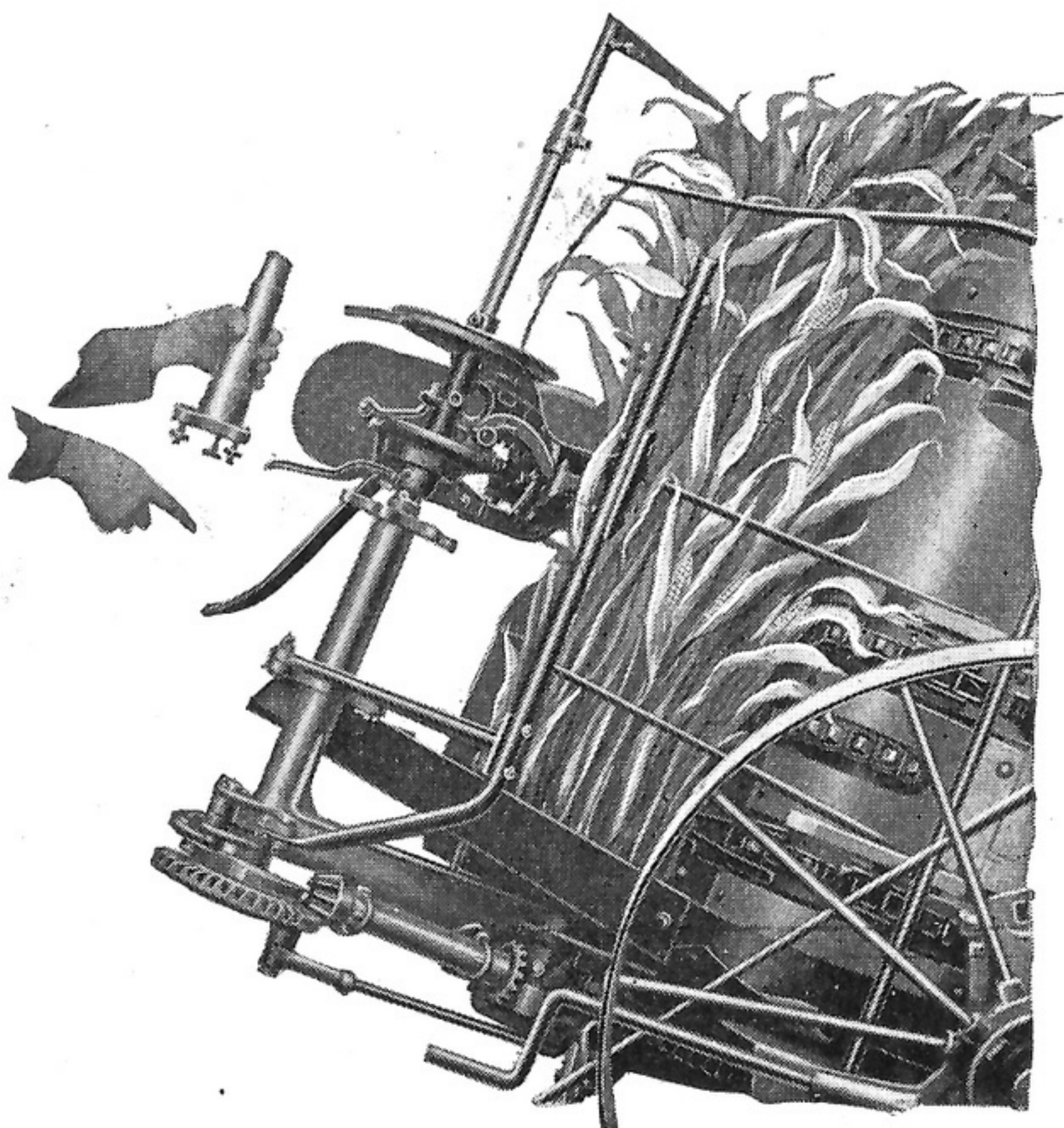
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**I**n short corn, our competitors raise the stalks much higher and use more power doing it. They force the tops into the machinery, bend the stalks, and make tight bundles impossible. They knock off the ears in this way also.

When the Johnston is in short corn, remove the tier frame extension, and lower needle and knoter. The changes are easily made, and with adjustment of the pan you can bind as low as eighteen inches from the butts.

### BUNDLE CARRIER

Made entirely of steel. Strong, light, easily adjusted. Dumps quickly from the seat. Bundles discharge to the carrier by their own weight. *Saves power.* Delivers the bundles farther from the machine than on any other corn binder.





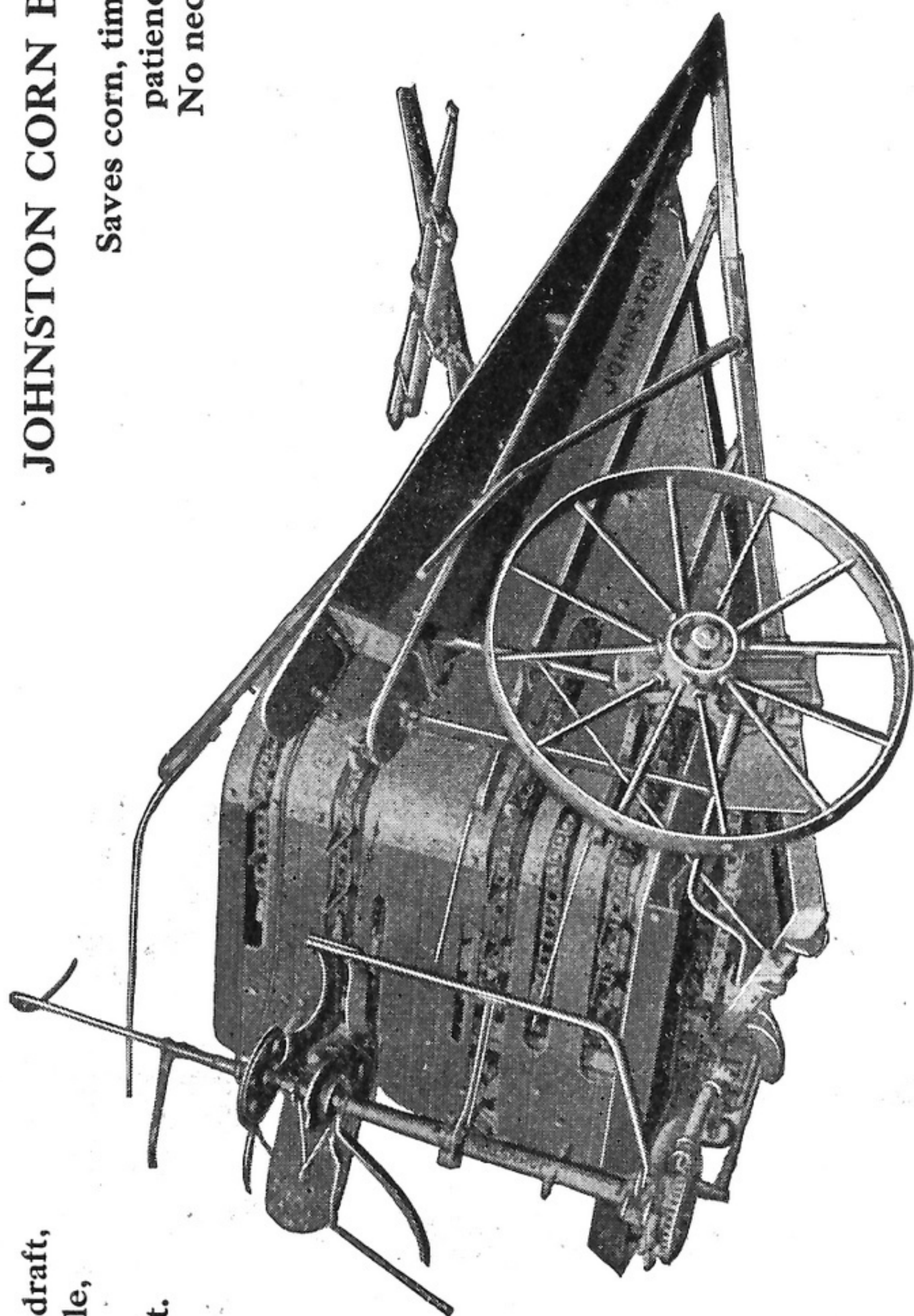
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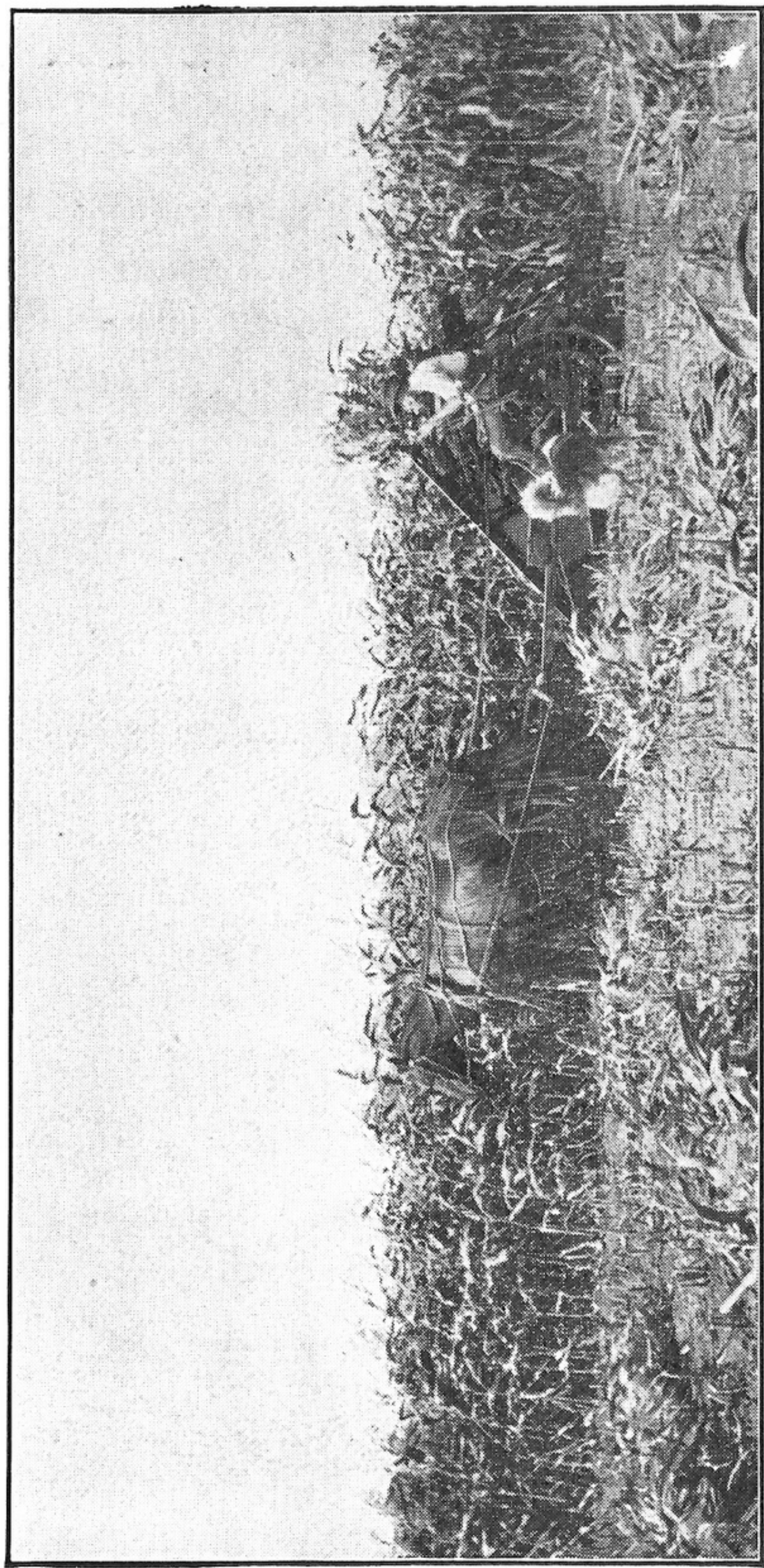
Strong, light draft,  
durable, stable,  
convenient.  
No side draft.

JOHNSTON CORN BINDER

Saves corn, time, money,  
patience, power.  
No neck-weight.





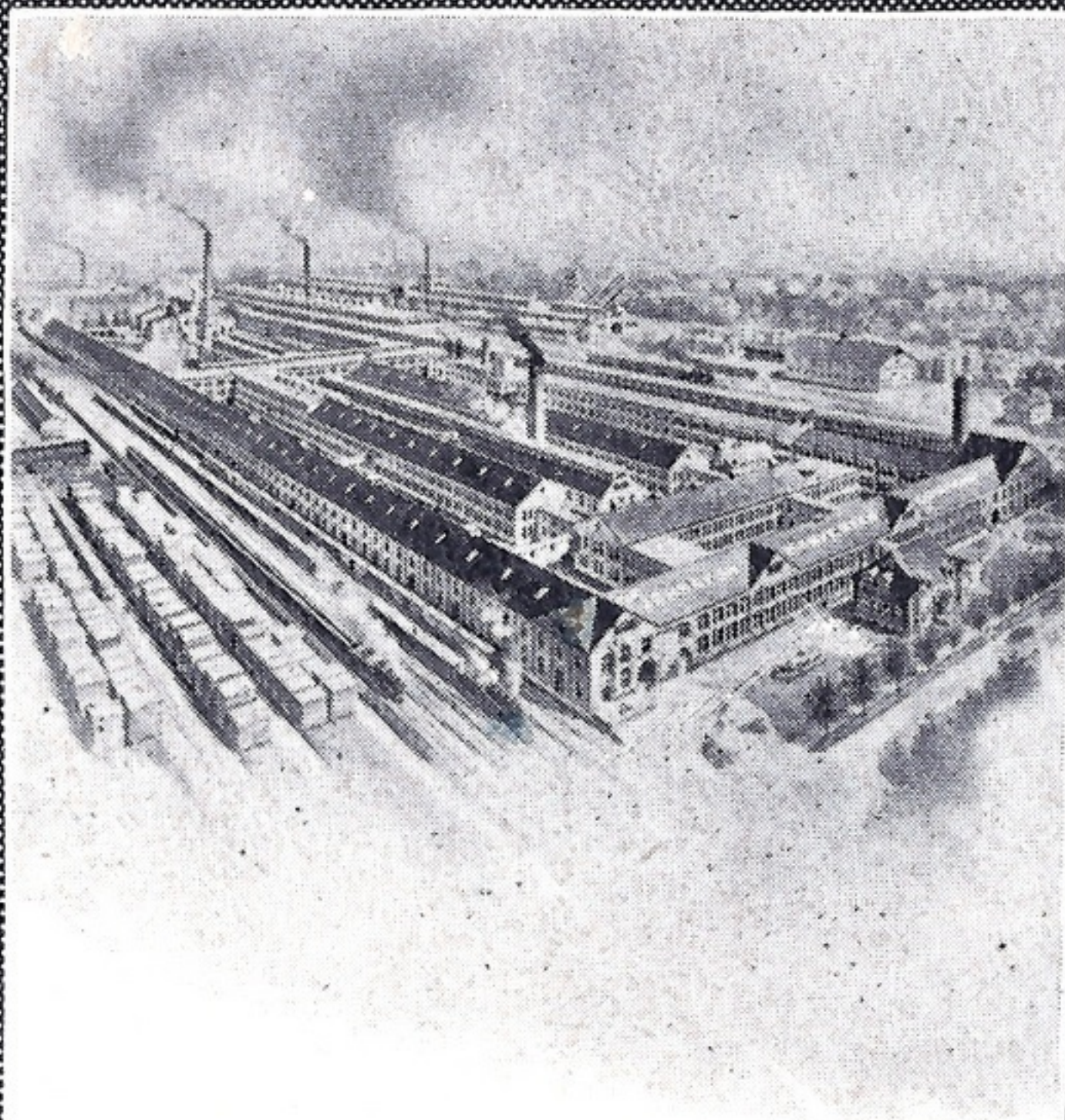


A view showing the Johnstone Corn Binder at work in corn of medium height. You will note that the horses are going along apparently without any effort whatever, showing that the Johnstone Binder is light of draft and handles the corn easily.



# JOHNSTON

**GRAIN BINDERS, CORN BINDERS,  
MOWERS, REAPERS, RAKES,  
TEDDERS, DISK, SPIKE  
AND SPRING TOOTH HARROWS,  
ORCHARD HARROWS, MANURE  
SPREADERS**



**FACTORY & OFFICE**

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